

Dissolved Cadmium					
Location	Date/Time	Measured Value	Acute TVS at Hardness		Chronic TVS at Sample Hardness
nent Creek 14th St Bri	8/5/15 16:00	98.3	9.1	5.69	1.20
CC48	8/5/15 19:25	30.6	9.1	5.69	1.20
CC48	8/5/15 23:00	19.1	9.1	5.69	1.20
CC48	8/6/15 6:00	14.2	9.1	5.69	1.20
A68	8/5/15 16:00	0.828	2.8	1.72	0.43
A68	8/5/15 19:15	0.815	2.8	1.75	0.43
A68	8/5/15 23:30	0.974	2.8	1.73	0.43
A68	8/6/15 6:15	0.85	2.8	1.75	0.43
A72	8/5/15 13:45	1.81	4.4	2.73	0.64
A72	8/5/15 16:15	15.2	6.5	4.06	0.90
A72	8/5/15 20:10	4.29	4.1	2.54	0.60
A72	8/5/15 23:50	2.59	3.8	2.34	0.56
A72	8/6/15 6:30	2.11	3.7	2.33	0.56
Bakers Bridge	8/5/15 20:05	0.353	2.7	1.67	0.42
Bakers Bridge	8/6/15 0:00	0.336	2.7	1.67	0.42
Bakers Bridge	8/6/15 9:00	5.32	3.6	2.26	0.54
Bakers Bridge	8/10/2015	0.535	3.0	1.85	0.46
32nd St Bridge	8/5/15 20:50	0.178	4.1	2.54	0.60
32nd St Bridge	8/6/15 0:40	0.16	4.1	2.55	0.60
32nd St Bridge	8/6/15 9:45	0.19	4.1	2.57	0.60
32nd St Bridge	8/10/15 11:47	0.195	4.1	2.57	0.60

**Bold** Greater than Chronic TVS  
**Shaded** Greater than Acute and Chronic TVS

The ones I am doing are based on Colorado Table Value Stan

ium

Dissolved Copper					Total Iron		
Acute HQ	Chronic HQ	Measured Value	Acute TVS at Hardness	Chronic TVS at Sample Hardness	Acute HQ	Chronic HQ	Measured Value
10.7	81.7	10400	49.6	29.3	209.6	355.2	49500
3.3	25.4	2260	49.6	29.3	45.5	77.2	27000
2.1	15.9	1130	49.6	29.3	22.8	38.6	21300
1.6	11.8	786	49.6	29.3	15.8	26.8	20000
0.3	1.9	3.45	13.6	9.0	0.3	0.4	165
0.3	1.9	3.16	13.8	9.2	0.2	0.3	132
0.3	2.3	3.52	13.7	9.1	0.3	0.4	138
0.3	2.0	3.26	13.8	9.2	0.2	0.4	143
0.4	2.8	9.27	22.4	14.2	0.4	0.7	66300
2.3	16.9	1410	34.4	21.0	41.0	67.2	1250000
1.1	7.2	205	20.7	13.2	9.9	15.5	164000
0.7	4.6	11.4	18.9	12.2	0.6	0.9	35700
0.6	3.8	7.63	18.8	12.2	0.4	0.6	18400
0.1	0.8	2.28	13.2	8.8	0.2	0.3	421
0.1	0.8	1.88	13.2	8.8	0.1	0.2	412
1.5	9.8	189	18.2	11.8	10.4	16.0	326000
0.2	1.2	3.16	14.7	9.7	0.2	0.3	1710
0.0	0.3	1.7	20.7	13.2	0.1	0.1	331
0.0	0.3	1.56	20.8	13.3	0.1	0.1	295
0.0	0.3	1.62	20.9	13.4	0.1	0.1	371
0.0	0.3	2.23	20.9	13.4	0.1	0.2	884

The standards are based on hardness so

Total Iron				Dissolved Lead			
Acute TVS at Hardness	Chronic TVS at Sample Hardness	Chronic HQ	Measured Value	Acute TVS at Hardness	Chronic TVS at Sample Hardness	Acute HQ	Chronic HQ
NA	1000	49.50	150	281	10.9	0.5	13.7
NA	1000	27.00	73.9	281	10.9	0.3	6.8
NA	1000	21.30	54.1	281	10.9	0.2	4.9
NA	1000	20.00	30	281	10.9	0.1	2.7
NA	1000	0.17	0.232	65	2.5	0.0	0.1
NA	1000	0.13	0.283	67	2.6	0.0	0.1
NA	1000	0.14	0.82	66	2.6	0.0	0.3
NA	1000	0.14	0.329	67	2.6	0.0	0.1
NA	1000	66.30	0.225	116	4.5	0.0	0.0
NA	1000	1250.00	50.7	188	7.3	0.3	6.9
NA	1000	164.00	3.12	106	4.1	0.0	0.8
NA	1000	35.70	0.118	96	3.7	0.0	0.0
NA	1000	18.40	0.5	95	3.7	0.0	0.1
NA	1000	0.42	0.5	63	2.5	0.0	0.2
NA	1000	0.41	0.5	63	2.5	0.0	0.2
NA	1000	326.00	1.56	92	3.6	0.0	0.4
	1000	1.71	0.2	71.63206	2.8	0.0	0.1
NA	1000	0.33	0.24	106	4.1	0.0	0.1
NA	1000	0.30	0.5	107	4.2	0.0	0.1
NA	1000	0.37	0.115	107	4.2	0.0	0.0
NA	1000	0.884	0.2	107	4.2	0.0	0.0

Dissolved Manganese					Dissolved Zinc	
Measured Value	Acute TVS at Hardness	Chronic TVS at Sample Hardness	Acute HQ	Chronic HQ	Measured Value	Acute TVS at Hardness
37100	4738	2618	7.8	14.2	26800	564
10900	4738	2618	2.3	4.2	8540	564
8020	4738	2618	1.7	3.1	5820	564
6720	4738	2618	1.4	2.6	4650	564
737	2996	1655	0.2	0.4	199	161
727	3015	1666	0.2	0.4	238	164
757	3005	1661	0.3	0.5	324	163
817	3015	1666	0.3	0.5	326	164
1370	3577	1976	0.4	0.7	699	262
6650	4162	2299	1.6	2.9	4020	396
1810	3477	1921	0.5	0.9	1210	243
1320	3371	1863	0.4	0.7	733	223
1160	3363	1858	0.3	0.6	609	222
306	2966	1639	0.1	0.2	85.8	157
296	2966	1639	0.1	0.2	110	157
2090	3324	1836	0.6	1.1	1700	214
401	3082.0	1702.8	0.1	0.2	85.6	174.5
105	3477	1921	0.0	0.1	43.5	243
105	3484	1925	0.0	0.1	37.8	244
97.8	3492	1929	0.0	0.1	49.1	245
136	3492	1929	0.0	0.1	54.5	245

Dissolved Zinc			Hardness		Total Mercury		
Chronic TVS at Sample Hardness	Acute HQ	Chronic HQ	Or 400, whichever is less	Measured Value	Measured Value	Chronic TVS	Chronic Hazard Quotient
428	47.5	62.7	400	1300	19.2 D	0.01	#VALUE!
428	15.1	20.0	400	537	0.078 J	0.01	#VALUE!
428	10.3	13.6	400	467	0.077 J	0.01	#VALUE!
428	8.2	10.9	400	433	0.052 J	0.01	#VALUE!
122	1.2	1.6	101	101	<0.0500	0.01	#VALUE!
124	1.4	1.9	103	103	<0.0500	0.01	#VALUE!
123	2.0	2.6	102	102	<0.0500	0.01	#VALUE!
124	2.0	2.6	103	103	<0.0500	0.01	#VALUE!
198	2.7	3.5	172	172	<0.0500	0.01	#VALUE!
300	10.1	13.4	271	271	0.418	0.01	41.8
184	5.0	6.6	158	158	0.065 J	0.01	#VALUE!
169	3.3	4.3	144	144	<0.0500	0.01	#VALUE!
168	2.7	3.6	143	143	<0.0500	0.01	#VALUE!
119	0.5	0.7	98	98	<0.0500	0.01	#VALUE!
119	0.7	0.9	98	98	<0.0500	0.01	#VALUE!
162	7.9	10.5	138	138	0.152	0.01	15.2
132.2	0.5	0.6	110	110	<0.1	0.01	#VALUE!
184	0.2	0.2	158	158	<0.0500	0.01	#VALUE!
185	0.2	0.2	159	159	<0.0500	0.01	#VALUE!
186	0.2	0.3	160	160	<0.0500	0.01	#VALUE!
186	0.2	0.3	160	160	<0.1	0.01	#VALUE!

### Dissolved Arsenic

Measured Value	Acute TVS	Chronic TVS	Acute HQ	Chronic HQ
<5.00	340	150	#VALUE!	#VALUE!
<2.50	340	150	#VALUE!	#VALUE!
<2.50	340	150	#VALUE!	#VALUE!
<2.50	340	150	#VALUE!	#VALUE!
<0.500	340	150	#VALUE!	#VALUE!
<0.500	340	150	#VALUE!	#VALUE!
<0.500	340	150	#VALUE!	#VALUE!
<0.500	340	150	#VALUE!	#VALUE!
<0.500	340	150	#VALUE!	#VALUE!
0.797 J	340	150	#VALUE!	#VALUE!
<0.500	340	150	#VALUE!	#VALUE!
<0.500	340	150	#VALUE!	#VALUE!
<0.500	340	150	#VALUE!	#VALUE!
<0.500	340	150	#VALUE!	#VALUE!
<0.500	340	150	#VALUE!	#VALUE!
<0.500	340	150	#VALUE!	#VALUE!
<2	340	150	#VALUE!	#VALUE!
0.628 J	340	150	#VALUE!	#VALUE!
0.603 J	340	150	#VALUE!	#VALUE!
<0.500	340	150	#VALUE!	#VALUE!
<2	340	150	#VALUE!	#VALUE!

		0	0	0	0
Location	Date/Time	Acute HQ	Acute HQ	Chronic HQ	Acute HQ
Cement Creek 14th St Bridge	8/5/15 16:00	11	210	49.5	0.5
CC48	8/5/15 19:25	3.3	46	27.0	0.3
CC48	8/5/15 23:00	2.1	23	21.3	0.2
CC48	8/6/15 6:00	1.6	16	20.0	0.1
A68	8/5/15 16:00	0.3	0.3	0.2	0.0
A68	8/5/15 19:15	0.3	0.2	0.1	0.0
A68	8/5/15 23:30	0.3	0.3	0.1	0.0
A68	8/6/15 6:15	0.3	0.2	0.1	0.0
A72	8/5/15 13:45	0.4	0.4	66.3	0.0
A72	8/5/15 16:15	2.3	41	1250	0.3
A72	8/5/15 20:10	1.1	9.9	164	0.0
A72	8/5/15 23:50	0.7	0.6	35.7	0.0
A72	8/6/15 6:30	0.6	0.4	18.4	0.0
Bakers Bridge	8/5/15 20:05	0.1	0.2	0.4	0.0
Bakers Bridge	8/6/15 0:00	0.1	0.1	0.4	0.0
Bakers Bridge	8/6/15 9:00	1.5	10	326	0.0
32nd St Bridge	8/5/15 20:50	0.0	0.1	0.3	0.0
32nd St Bridge	8/6/15 0:40	0.0	0.1	0.3	0.0
32nd St Bridge	8/6/15 9:45	0.0	0.1	0.4	0.0

0	0
Acute HQ	Acute HQ
7.8	47
2.3	15
1.7	10
1.4	8.2
0.2	1.2
0.2	1.4
0.3	2.0
0.3	2.0
0.4	2.7
1.6	10
0.5	5.0
0.4	3.3
0.3	2.7
0.1	0.5
0.1	0.7
0.6	7.9
0.0	0.2
0.0	0.2
0.0	0.2



			Mercury	Diss. Arsenic	Total Arsenic
			7439-97-6	7440-38-2	7440-38-2
			ug/L	ug/L	ug/L
Location	Date	Sample Time	--	--	--
32nd St Bridge	8/5/2015	20:50	<0.0500	0.628 J	<2.50
32nd St Bridge	8/6/2015	0:40	<0.0500	0.603 J	<2.50
32nd St Bridge	8/6/2015	9:45	<0.0500	<0.500	<2.50
A68	8/5/2015	16:00	<0.0500	<0.500	<2.50
A68	8/5/2015	19:15	<0.0500	<0.500	<2.50
A68	8/5/2015	23:30	<0.0500	<0.500	<2.50
A68	8/6/2015	6:15	<0.0500	<0.500	<2.50
A72	8/5/2015	13:45	<0.0500	<0.500	28.9 D
A72	8/5/2015	16:15	0.418	0.797 J	1080 D
A72	8/5/2015	20:10	0.065 J	<0.500	116 D
A72	8/5/2015	23:50	<0.0500	<0.500	27.1 D
A72	8/6/2015	6:30	<0.0500	<0.500	15.7 D
Bakers Bridge	8/5/2015	20:05	<0.0500	<0.500	<2.50
Bakers Bridge	8/6/2015	0:00	<0.0500	<0.500	<2.50
Bakers Bridge	8/6/2015	9:00	0.152	<0.500	264 D
CC48	8/5/2015	23:00	0.077 J	<2.50	203 D
CC48	8/5/2015	19:25	0.078 J	<2.50	732 D
CC48	8/6/2015	6:00	0.052 J	<2.50	98.5 D
Cement Creek 14th St Bridge	8/5/2015	16:00	19.2 D	<5.00	8230 D

Cement Creek 14th St Bridge	8/5/2015	16:00
CC48	8/5/2015	19:25
CC48	8/5/2015	23:00
CC48	8/6/2015	6:00
A68	8/5/2015	16:00
A68	8/5/2015	19:15
A68	8/5/2015	23:30
A68	8/6/2015	6:15
A72	8/5/2015	13:45
A72	8/5/2015	16:15
A72	8/5/2015	20:10
A72	8/5/2015	23:50
A72	8/6/2015	6:30
Bakers Bridge	8/5/2015	20:05
Bakers Bridge	8/6/2015	0:00
Bakers Bridge	8/6/2015	9:00
32nd St Bridge	8/5/2015	20:50
32nd St Bridge	8/6/2015	0:40
32nd St Bridge	8/6/2015	9:45



















































































































































































































































































































































































































































































































































































































































































































































































































































Mercury	Diss. Arsenic	Total Arsenic
---------	---------------	---------------

<b>19.2 D</b>	<5.00	<b>8230 D</b>
<b>0.078 J</b>	<2.50	<b>732 D</b>
<b>0.077 J</b>	<2.50	<b>203 D</b>
<b>0.052 J</b>	<2.50	<b>98.5 D</b>
<0.0500	<0.500	<2.50
<0.0500	<0.500	<2.50
<0.0500	<0.500	<2.50
<0.0500	<0.500	<2.50
<0.0500	<0.500	<b>28.9 D</b>
<b>0.418</b>	<b>0.797 J</b>	<b>1080 D</b>
<b>0.065 J</b>	<0.500	<b>116 D</b>
<0.0500	<0.500	<b>27.1 D</b>
<0.0500	<0.500	<b>15.7 D</b>
<0.0500	<0.500	<2.50
<0.0500	<0.500	<2.50
<b>0.152</b>	<0.500	<b>264 D</b>
<0.0500	<b>0.628 J</b>	<2.50
<0.0500	<b>0.603 J</b>	<2.50
<0.0500	<0.500	<2.50



















































































































































































































































































































































































































































































































































































































































































































































































































































